

## ABSTRACT

A metal-coated cubic boron nitride abrasive grain obtained by forming grooves, in which the ratio ( $w/d$ ) of the width ( $w$ ) to the depth ( $d$ ) is less than 1, and the ratio ( $w/L$ ) of the width ( $w$ ) to the length ( $L$ ) is less than 0.1, on the surface of a cubic boron nitride abrasive grain. In this cubic boron nitride abrasive grain, the retention force (bonding strength) between the metallic coating and the cubic boron nitride abrasive grain is improved; therefore, it is possible to fabricate a resin bonded grinding wheel, in which a high grinding ratio (long life) and a low grinding power (superior grinding performance) are achieved, using such cubic boron nitride abrasive grains.